

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529810

Luminaire Tested: **GALN-SA5A-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18786 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

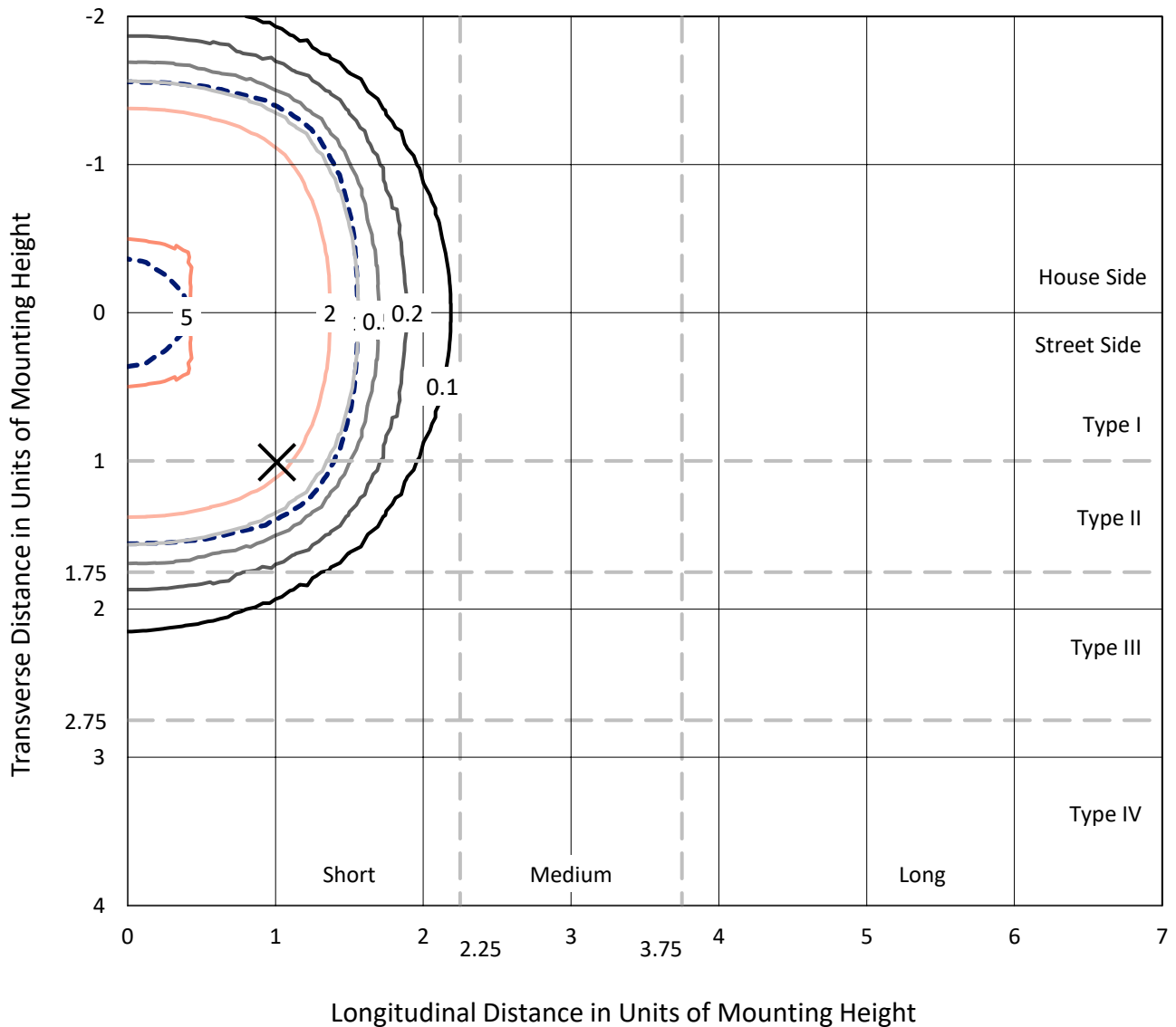
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

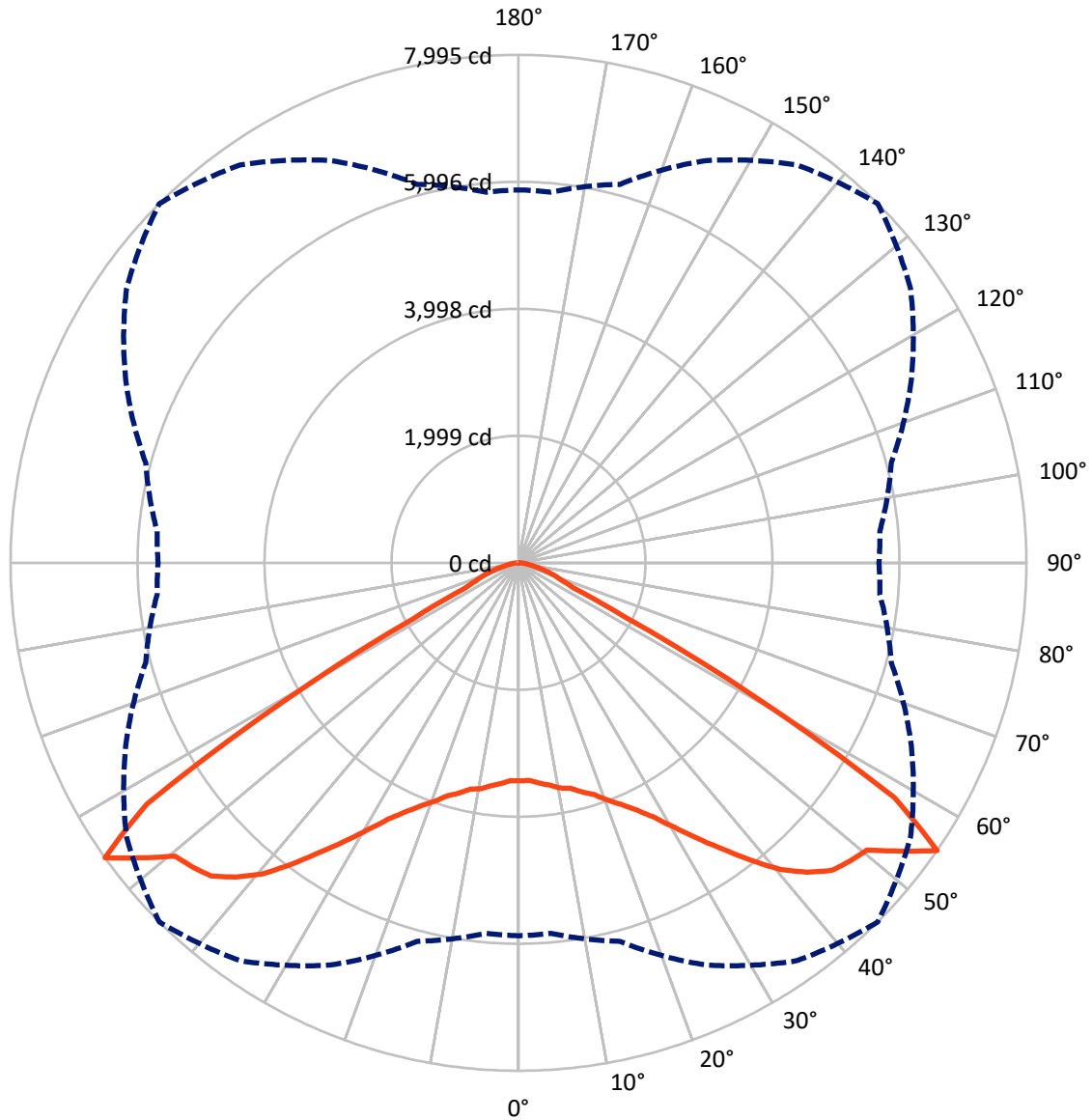
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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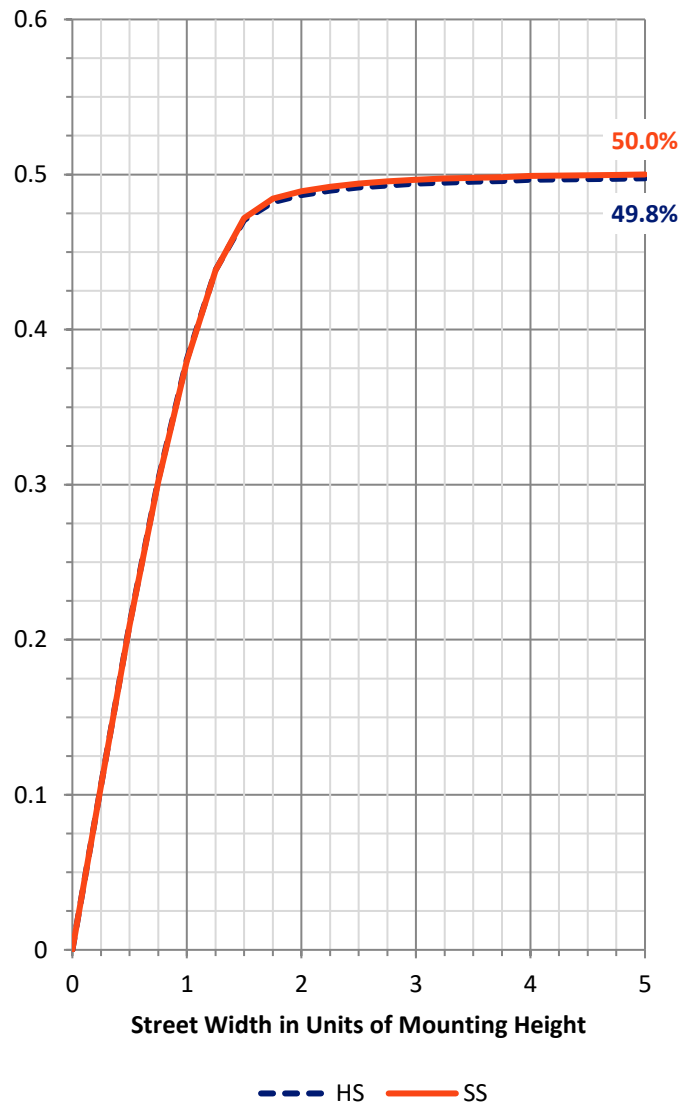
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9393.0	0.0	9393.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9393.0	0.0	9393.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18786.0	0.0	18786.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.1	1.8
10°-20°	1061.7	5.7
20°-30°	1979.8	10.5
30°-40°	3314.8	17.6
40°-50°	5158.0	27.5
50°-60°	5355.6	28.5
60°-70°	1135.8	6.0
70°-80°	374.0	2.0
80°-90°	71.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18786.0	100.0
0°-180°	18786.0	100.0

**Coefficient of Utilization**

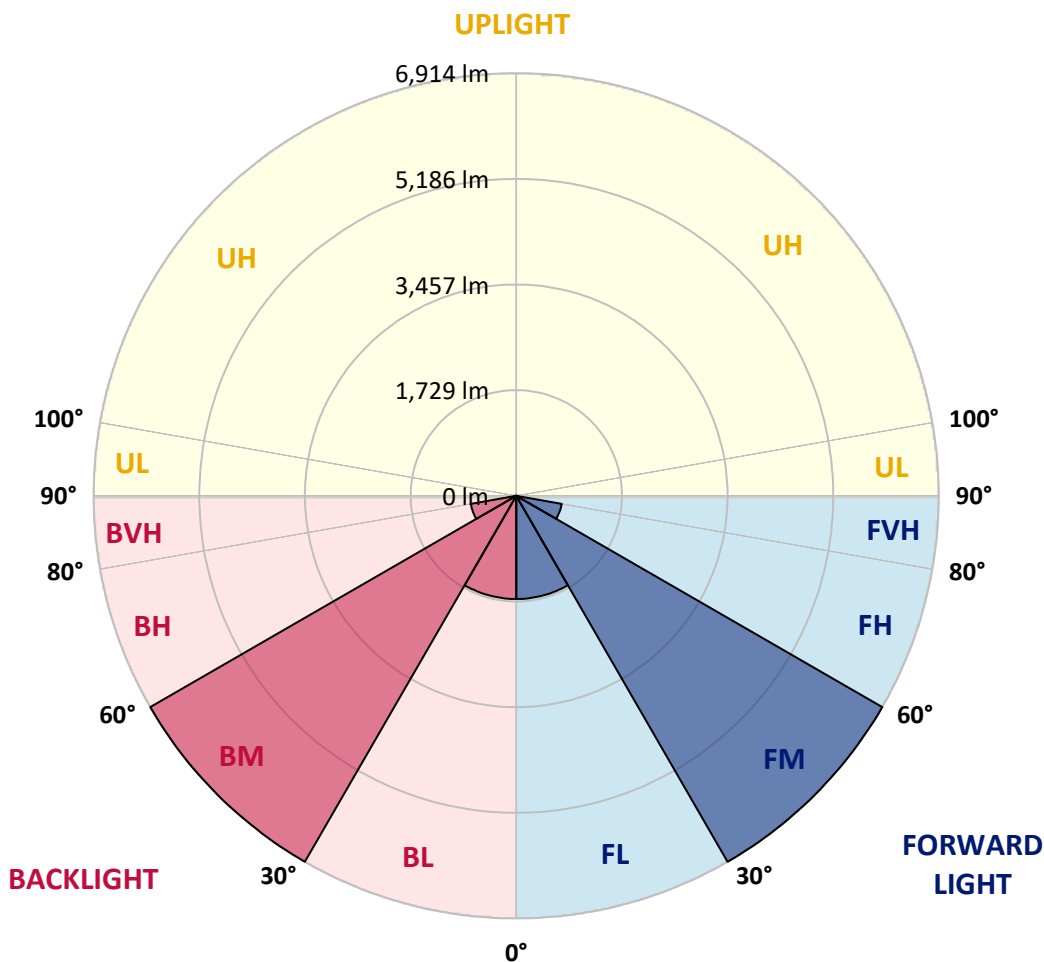


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.3	9.0			
FM (30°-60°)	6914.2	36.8			
FH (60°-80°)	754.9	4.0			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1688.3	9.0	B3/2500		
BM (30°-60°)	6914.2	36.8	B4/8500		
BH (60°-80°)	754.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	35.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0
2.5°	3470.9	3455.0	3427.8	3448.2	3464.1	3430.0	3443.7	3450.5	3445.9	3427.8	3434.6
5°	3520.8	3511.8	3489.1	3505.0	3484.5	3484.5	3470.9	3452.7	3480.0	3475.4	3486.8
7.5°	3520.8	3509.5	3554.9	3525.4	3534.5	3534.5	3511.8	3493.6	3507.2	3486.8	3475.4
10°	3591.2	3607.1	3586.7	3593.5	3588.9	3604.8	3570.8	3559.4	3548.1	3541.3	3527.7
12.5°	3675.2	3663.9	3670.7	3666.1	3682.0	3641.2	3620.7	3595.8	3616.2	3586.7	3607.1
15°	3743.3	3736.5	3743.3	3761.5	3745.6	3743.3	3707.0	3682.0	3650.2	3657.0	3625.3
17.5°	3836.4	3829.6	3831.8	3847.7	3845.5	3834.1	3806.9	3759.2	3747.9	3729.7	3709.3
20°	3974.9	3963.5	3959.0	3965.8	3977.1	3986.2	3931.7	3913.6	3875.0	3845.5	3811.4
22.5°	4092.9	4088.4	4106.5	4077.0	4102.0	4129.2	4077.0	4067.9	3972.6	3956.7	3920.4
25°	4256.3	4249.5	4238.2	4281.3	4310.8	4308.6	4258.6	4208.7	4136.0	4117.9	4117.9
27.5°	4428.9	4390.3	4449.3	4460.6	4512.9	4528.7	4485.6	4413.0	4344.9	4306.3	4315.4
30°	4644.5	4608.2	4621.8	4703.5	4771.6	4830.7	4721.7	4615.0	4519.7	4451.6	4440.2
32.5°	4860.2	4823.9	4864.7	4944.2	5080.4	5168.9	5062.2	4876.1	4764.8	4664.9	4685.4
35°	5035.0	5062.2	5128.0	5248.4	5389.1	5532.1	5361.9	5218.8	5059.9	4948.7	4964.6
37.5°	5316.5	5400.4	5452.7	5591.1	5790.9	5938.4	5761.4	5575.2	5405.0	5259.7	5209.8
40°	5684.2	5741.0	5800.0	5963.4	6199.5	6347.1	6179.1	5936.2	5768.2	5618.4	5611.6
42.5°	6088.3	6142.8	6204.0	6403.8	6544.6	6655.8	6501.4	6372.0	6185.9	6067.8	6061.0
45°	6558.2	6519.6	6587.7	6719.3	6837.4	6910.0	6810.1	6746.6	6612.7	6503.7	6492.3
47.5°	6871.4	6837.4	6960.0	7078.0	7096.2	7016.7	7037.2	7096.2	6955.4	6776.1	6832.8
50°	7053.0	7053.0	7134.8	7243.7	7209.7	7107.5	7268.7	7273.2	7132.5	6973.6	6973.6
52.5°	6737.5	6807.9	7039.4	7395.8	7509.3	7538.8	7502.5	7348.1	6980.4	6655.8	6639.9
55°	5870.3	5854.5	6167.7	6984.9	7645.5	7995.1	7532.0	6821.5	6074.6	5709.2	5672.9
57.5°	3818.2	3836.4	4304.0	5137.1	6328.9	6980.4	6199.5	5200.7	4304.0	3800.1	3847.7
60°	1718.4	1779.7	2063.5	2685.5	3709.3	4240.5	3718.3	2821.7	2165.6	1879.6	1904.6
62.5°	987.5	998.8	1010.2	1198.6	1580.0	1868.2	1641.2	1266.7	1116.9	1066.9	1066.9
65°	833.1	826.3	828.6	844.5	885.3	944.3	919.4	885.3	889.9	885.3	878.5
67.5°	708.3	717.3	710.5	721.9	724.1	733.2	749.1	762.7	765.0	769.5	765.0
70°	581.1	583.4	587.9	597.0	599.3	606.1	628.8	640.2	647.0	647.0	656.0
72.5°	444.9	442.7	447.2	456.3	467.6	469.9	490.3	506.2	515.3	504.0	506.2
75°	292.8	295.1	301.9	308.7	324.6	340.5	347.3	363.2	365.5	370.0	358.7
77.5°	174.8	179.3	186.1	199.8	213.4	227.0	242.9	254.2	258.8	254.2	240.6
80°	113.5	113.5	122.6	133.9	149.8	161.2	170.3	179.3	186.1	179.3	174.8
82.5°	70.4	70.4	81.7	95.3	106.7	113.5	127.1	138.5	145.3	140.7	133.9
85°	36.3	38.6	47.7	59.0	68.1	72.6	70.4	63.6	56.8	54.5	49.9
87.5°	11.4	11.4	13.6	13.6	11.4	11.4	13.6	11.4	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)